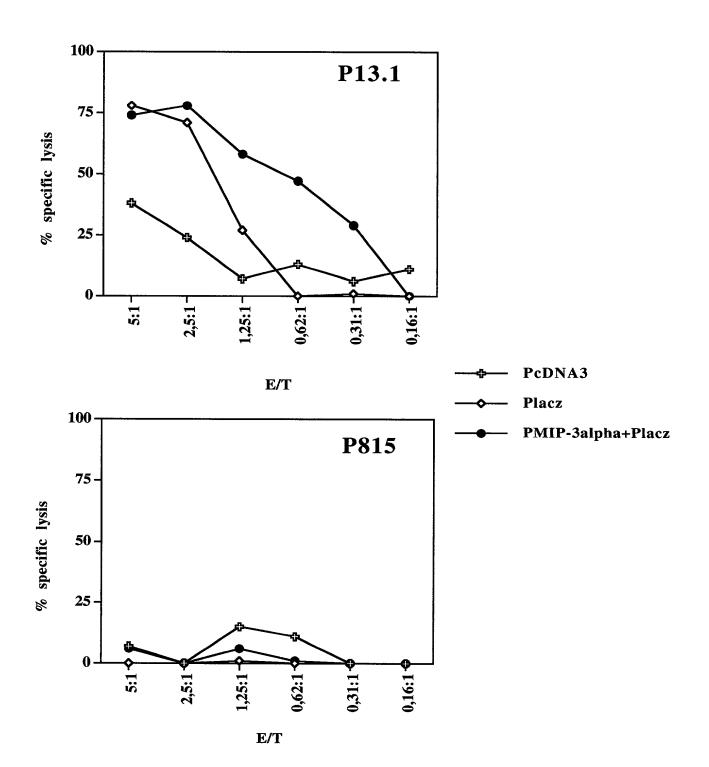


→ PCDNA3→ Placz→ pMIP-3 alpha + Placz

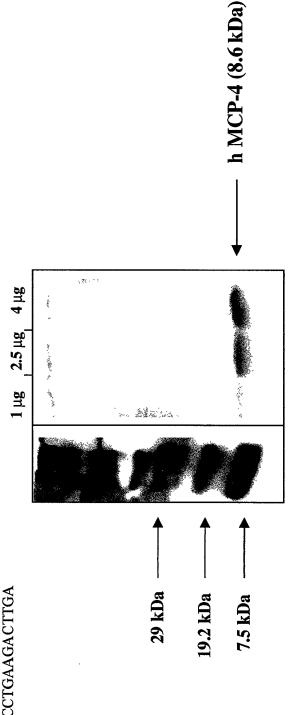


hMCP-4 chemokine

- Nucleotide sequence (coding only)

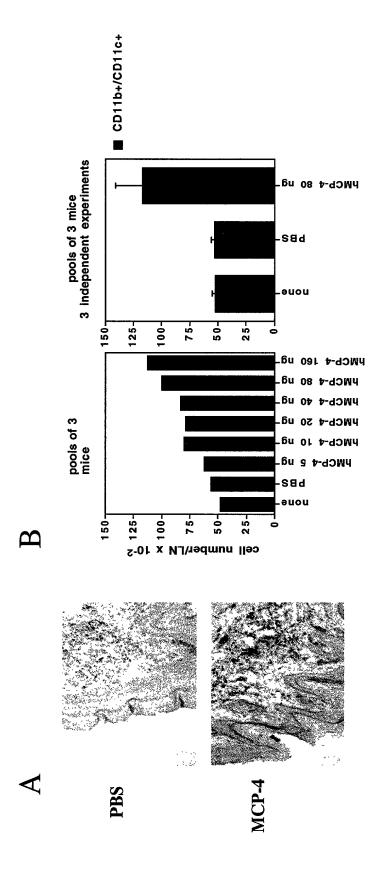
- Amino acid sequence (leader sequence not present in recombinant protein in italics)

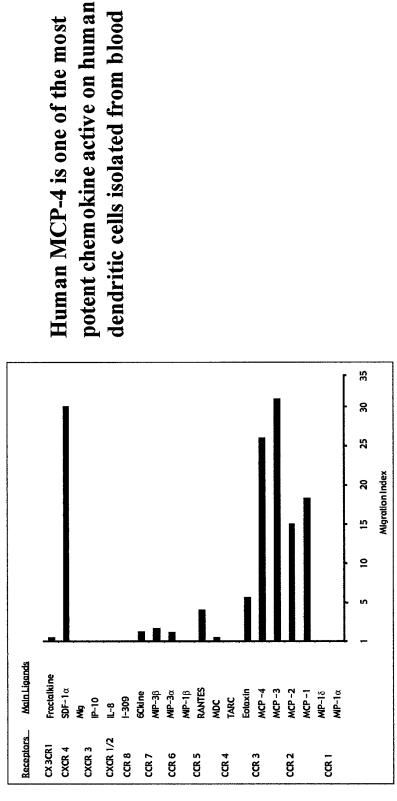
MKVSAVILCILIMTAAFNPQGLAQPDALNV PSTCCFTFSSKKISLQRLKSYVITTSRCPQK AVIFRTKLGKEICADPKEK WVQNYMKHL GRKAHTLKT



SDS-PAGE (18%) and silver staining of human recombinant MCP-4

(B) Increase of dendritic cells in the draining lymph node 20 hours after hMCP-4 s.c. injection: absolute numbers. Right panel statistical difference between hMCP-4 (A) Local recruitment of CD11b+ cells 2 h following hMCP-4 injection and controls p< 0.01 (Student's t test)





dendritic cells and monocyte-derived Human MCP-4 is active on blood dendritic cells, unlike hMCP-1

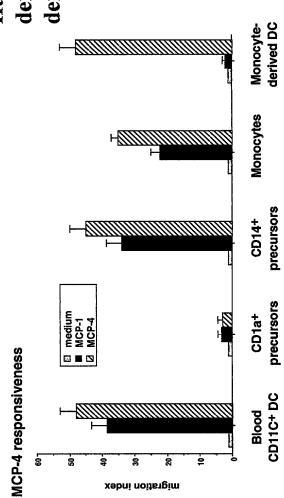
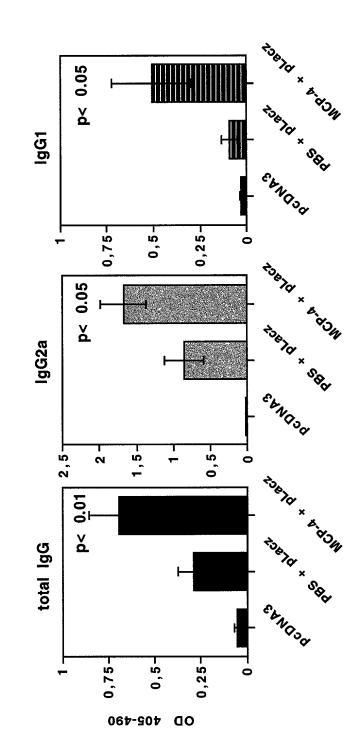


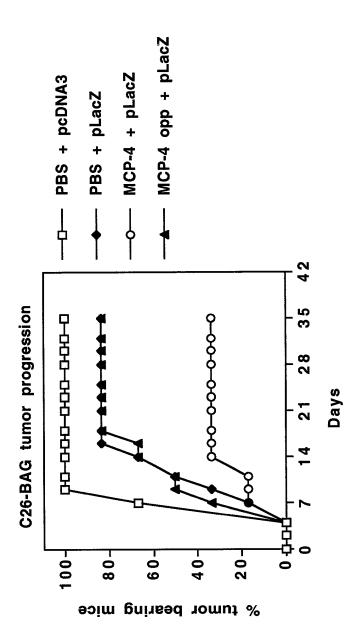
Figure 5

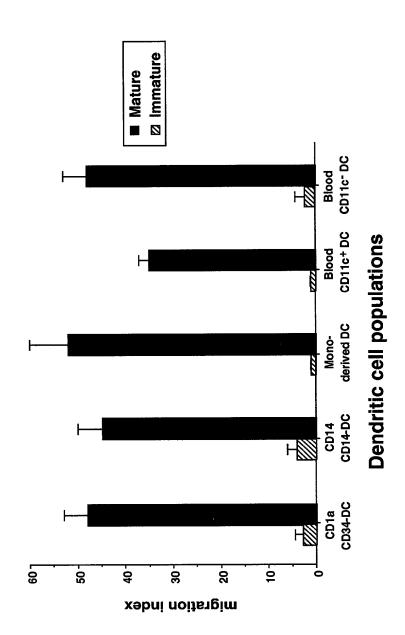
galactosidase DNA immunization (50 micrograms DNA injection 3 hours after 100 ng MCP-4 injection increases the antigen-specific humoral response following betahMCP-4 injection in rear right footpad)

Figure shows anti-betagalactosidase antibodies measured after 4 immunizations significance hMCP-4 + pLacz compared with PBS + pLacz : Student's t test

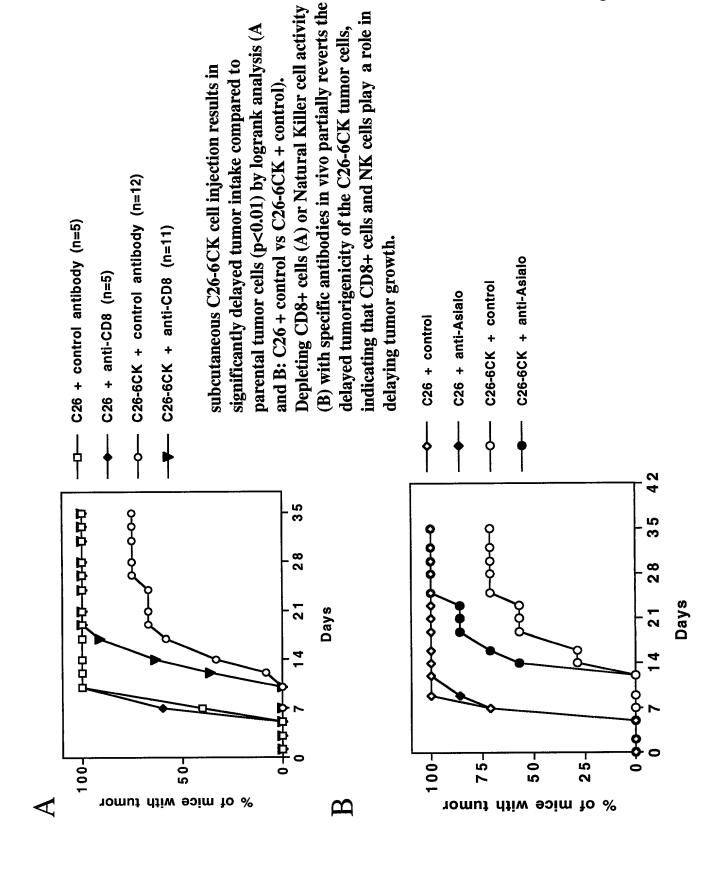


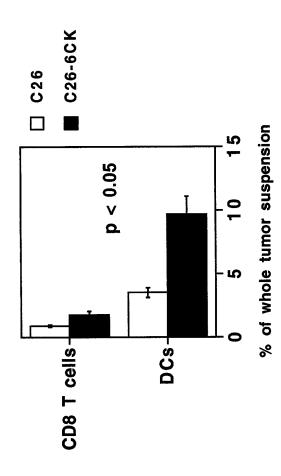
carcinoma cell line that expresses beta-galactosidase significance hMCP-4 + pLacz compared with PBS + pLacz : p<0.05 logrank MCP-4 opp: hMCP-4 after 100 ng hMCP-4 injection in rear right footpad, four immunizations galactosidase DNA immunization (50 micrograms DNA injection 3 hours prior to tumor challenge) when mice are challenged with a C26 colon MCP-4 injection increases the anti-tumor effect induced by betainjected at distant site



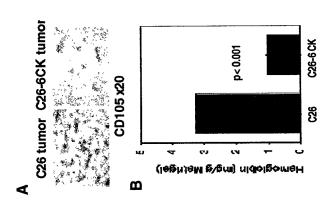


Human 6Ckine is a chemotactic factor for all subsets of human dendritic cells, derived in vitro or isolated ex vivo.





analyzed for CD8 T cells and CD11c+MHC classII+ dendritic cell (DC) infiltration Data show a significant recruitment of both leukocyte subsets in C26-6CK tumors C26 wild-type tumors or C26-6CK tumors expressing m6Ckine have been by flow cytometry analysis of whole tumor suspension (n=7). compared to C26 tumors (Student's t test).



analyzed for the development of blood vasculature (CD105 staining, A) or angiogenic C26 wild-type tumors or C26-6CK tumors expressing m6Ckine have been potential in a Matrigel assay (B).

Data show a significant decrease of angiogenesis induced by m6Ckine gene transfer into the C26 tumor.

